

May 12, 2003

Dear Ms. Chang,

Attached please find the results of your Fast & Focused search request for application #09/224,376. I searched Dialog's foreign patent files and technical databases.

Please let me know if you have any questions.

Regards,



Geoffrey St. Leger  
4B30/308-7800

L Number	Hits	Search Text	DB	Time stamp
9	4	5938732.uref. and (beat\$5 heartbeat\$5 ping)	USPAT	2003/05/14 14:01
10	198	(link-beat\$5 heartbeat\$5 ping) with (modify\$6 chang\$6 ) with rate\$5	USPAT	2003/05/14 16:13
11	1	5938732.pn. and (avail\$6 presen\$6)	USPAT	2003/05/14 14:01
12	1	5938732.pn. and (avail\$6 alive\$ presen\$6)	USPAT	2003/05/14 14:41
13	1	5938732.pn. and (fail\$6 releas\$6)	USPAT	2003/05/14 15:05
14	0	5938732.pn. and (quer\$5)	USPAT	2003/05/14 15:19
15	1	5938732.pn. and (add\$6 same acquir\$6)	USPAT	2003/05/14 15:20
16	0	5938732.pn. and ((adds adding add ) same acquir\$6)	USPAT	2003/05/14 15:20
17	1	5938732.pn. and ((adds adding add new ) same acquir\$6)	USPAT	2003/05/14 15:24
18	0	5938732.pn. and (recover\$6 )	USPAT	2003/05/14 15:26
19	1	5938732.pn. and (reassign\$6)	USPAT	2003/05/14 15:31
20	1	5938732.pn. and (primary (name\$3 near server\$5))	USPAT	2003/05/14 15:32
21	1	5938732.pn. and (zone\$3)	USPAT	2003/05/14 15:32
22	9	((link-beat\$5 heartbeat\$5 ping) with (modify\$6 chang\$6 ) with rate\$5) and (7\$/370/\$).ccls.	USPAT	2003/05/14 17:01
26	1	6370656.pn.	USPAT	2003/05/14 17:01
27	1	("6324580").PN.	USPAT	2003/05/14 17:29
-	5	1'2'tp with (network adj layer\$3)	USPAT	2003/05/12 12:13
-	69	ip near tunneling	USPAT	2003/05/12 11:28
-	2	((("6496491") or ("5878040"))).PN.	USPAT	2003/05/12 12:19
-	9	(network adj layer\$3) with tunnel\$6 with ip	USPAT	2003/05/12 12:13
-	47	mobile\$5 with ip with tunnel\$6	USPAT	2003/05/12 12:39
-	7835	rs adj '232'	USPAT	2003/05/12 12:41
-	166	(rs adj '232') and tunnel\$6	USPAT	2003/05/12 14:06
-	8	"295475"	USPAT; EPO	2003/05/12 14:09
-	1	("5600797").PN.	USPAT	2003/05/12 14:10
-	8	5600797.uref.	USPAT	2003/05/12 14:36
-	180	topology and heartbeat\$5	USPAT	2003/05/13 14:13
-	6	((("6393485") or ("6272139") or ("6115753") or ("6112249") or ("6111881") or ("5898827"))).PN.	USPAT	2003/05/13 14:41
-	52	feit.in.	USPAT	2003/05/13 14:41
-	0	feit.in. and heartbeat\$5	USPAT	2003/05/13 14:42
-	3	6178439.uref.	USPAT	2003/05/13 14:42
-	1	("6178439").PN.	USPAT	2003/05/13 14:43
-	5	heartbeat\$6 with (point-to-point unicast\$3 ppp)	USPAT	2003/05/13 14:54
-	1	("5600797").PN.	USPAT	2003/05/13 14:57
-	1	"7325773"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:00
-	6	"6222956"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:02
-	2	("5894547").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:03
-	2	"9826553"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:07
-	2	("6347339").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:09

-	2	("6205498").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:12
-	1	("0676496").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:14
-	1	("0248508").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:14
-	27	"248508"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:17
-	13	"676496"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:22
-	4838	(ping (control near messag\$6) heartbeat\$5) same (status state)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:26
-	3846	(ping (control near messag\$6) heartbeat\$5) same (status state)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:27
-	47	((ping (control near messag\$6) heartbeat\$5) same (status state) ) same (cluster\$5)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:28
-	80	((ping (control near messag\$6) heartbeat\$5) same (status state) ) same (cluster\$5 topology)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:46
-	21	(dns (domain adj name\$5 adj (system\$3 server\$5))) same (heartbeat\$6 ping)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 15:47
-	40	(ping heartbeat\$5) same (point-to-point unicast\$3 one-to-one)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 16:44
-	44	(ping heartbeat\$5) same (point-to-point ppp unicast\$3 one-to-one)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:30
-	1	6427163.pn. and (availab\$6 unavail\$6)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:15
-	1	6427163.pn. and (heartbeat\$5 (control adj message\$5))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:16
-	2	6427163.pn. and (heartbeat\$5 (control neart message\$5))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:27
-	1	("5600797").PN.	USPAT	2003/05/13 17:22
-	17	(heartbeat\$5 ping) with (unavailab\$6 )	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:23

-	1	6427163.pn. and (point-to-point unicast\$3 ppp)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:29
-	1	6381218.pn. and (point-to-point unicast\$3 ppp)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:29
-	112	(ping heartbeat\$5 beat\$5 link-beat\$6 ) same (point-to-point ppp unicast\$3 one-to-one)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:34
-	1	("5938732").PN.	USPAT	2003/05/13 17:35
-	2	("5938732").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/13 17:35
-	1	6427163.pn. and (status state)	USPAT	2003/05/14 17:29
-	2	("5938732" "6427163").pn. and (status state)	USPAT	2003/05/13 17:44
-	2	("5938732" "6427163").pn. and (heartbeat\$6)	USPAT	2003/05/13 17:53
-	42	point-to-point with directly with (send\$6 transmit\$6)	USPAT	2003/05/13 18:01
-	169	point-to-point with privat\$6	USPAT	2003/05/13 18:03
-	3	point-to-point with (privat\$6 adj communication\$5)	USPAT	2003/05/14 11:21

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... example below on more information how to **monitor** the PPTP ... This tunnel is like an Ethernet**point-to-point connection** between the ... RemoteOffice]> /ping 10.0.103.1 ...[www.mikrotik.com/Documentation/ manual\\_2.5/Interface/PPTP.html](http://www.mikrotik.com/Documentation/manual_2.5/Interface/PPTP.html) - 26k - [Cached](#) - [Similar pages](#)**Point-To-Point**

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[www.pathfinderbandwidth.com](http://www.pathfinderbandwidth.com)

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**The Linux Network Sharing A Dial-Up Connection To The Internet - ...**... We're using a PPP (**Point-To-Point** Protocol) dial-up **connection**. ... if you connect to XYZ ISP, try to **ping** www.xyz ... Using the Red Hat Network **Monitor** is a good way ...[www.smartcomputing.com/editcat/SMART/ OPERATING+SYSTEMS/400/14887/](http://www.smartcomputing.com/editcat/SMART/OPERATING+SYSTEMS/400/14887/) - [Similar pages](#)**VisualPulse monitoring**

Network availability monitor

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[www.visualware.com](http://www.visualware.com)

Interest:

**Windows NT Networking: A Collection of Topics**... Figure 4 shows the **Point-to-Point** Protocol (PPP) negotiation between RAS ... the four echos you see from **ping** on the ... for capturing and viewing Network **Monitor** files ...[www.windowsitlibrary.com/Content/172/01/29.html](http://www.windowsitlibrary.com/Content/172/01/29.html) - 42k - [Cached](#) - [Similar pages](#)**Network Monitor**

Easy to use, with web interface.

Connection quality graphs and more!

[www.PowerNOC.net](http://www.PowerNOC.net)

Interest:

**15 Tips for Troubleshooting VPN Connections**... If the server responds by address, **ping** it by ... client and the server for unicast (**point-to-point**)traffic ... filtering with the Microsoft Network **Monitor** or similar ...[www.winnetmag.com/Articles/Index.cfm?ArticleID=8290](http://www.winnetmag.com/Articles/Index.cfm?ArticleID=8290) - 35k - [Cached](#) - [Similar pages](#)**Network Service Monitor**

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Server, PC, Router, Switches etc.

[www.javvin.com](http://www.javvin.com)

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**PVCs and SVCs Troubleshooting IP over ATM PVC Connectivity - ...**... and IP address that you are trying to **ping**. interface ATM2/IMA0.294 **point-to-point** ip address 10.144.152.1 ... to the router by using the terminal **monitor** command. ...[www.cisco.com/en/US/tech/tk39/tk48/ technologies\\_tech\\_note09186a008009465e.shtml](http://www.cisco.com/en/US/tech/tk39/tk48/technologies_tech_note09186a008009465e.shtml) - 57k - [Cached](#) - [Similar pages](#)**T1 Point-to-Point: \$495**

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Interest:

[See your message here...](#)**docs.sun.com: TCP/IP and Data Communications Administration Guide**... of the output Using device ipdptp0 indicates a **point-to-point connection**. ... on the host you want to **monitor** as follows: ... example, if you tried to **ping** the remote ...[docs.sun.com/db/doc/802-5753/6i9g71m4l?a=view](http://docs.sun.com/db/doc/802-5753/6i9g71m4l?a=view) - 39k - [Cached](#) - [Similar pages](#)**Internetworking ISO Layers and Protocols**... them with a spreadsheet program, use Performance **Monitor**. ... an Echo reply (The default **ping** packet-size is ... Circuits (ASICs) to route **Point to Point** to individual ...[www.wilsonmar.com/1isotp.htm](http://www.wilsonmar.com/1isotp.htm) - 70k - [Cached](#) - [Similar pages](#)**PDF CISCO NETWORKING ACADEMY PROGRAM CURRICULUM SCOPE & SEQUENCE ...**File Format: PDF/Adobe Acrobat - [View as HTML](#)... The resolution of **point-to-point** and multipoint ... the Network \* Why is it necessary to **monitor** a network? ... IP connectivity \* How and when to use **PING** to test ...[www.bdeb.qc.ca/cours\\_programmes/ fcso/ntwrking\\_acad\\_sem\\_4v21.pdf](http://www.bdeb.qc.ca/cours_programmes/fcso/ntwrking_acad_sem_4v21.pdf) - [Similar pages](#)

### Monitoring / Alert Utilities

... handy IP package tools: graphical **ping**, traceroute, bandwidth ... is also able to **monitor** the status ... network configuration problems and **point-to-point** tests will ...

[www.netwarefiles.com/monitor.htm](http://www.netwarefiles.com/monitor.htm) - 64k - [Cached](#) - [Similar pages](#)

### NMS Glossary: P

... **ping**. ... The **Point-to-Point** Switching service server process (ppxserv). This server maintains an internal **connection** database to **monitor** timeslot availability and ...

[www.nmscommunications.com/manuals/glossary/letter\\_p.html](http://www.nmscommunications.com/manuals/glossary/letter_p.html) - 23k - [Cached](#) - [Similar pages](#)

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### Shailesh Govekar's Network Glossary

... device to allow a high-speed source to **transmit** data at ... Also known as "**heartbeat**" in Ethernet. ... SSCPs can **send** requests to, and receive replies from, individual ...

[www.geocities.com/ResearchTriangle/Lab/6601/s.html](http://www.geocities.com/ResearchTriangle/Lab/6601/s.html) - 25k - [Cached](#) - [Similar pages](#)

### Protocol Sketch

... The **heartbeat** interval is reset to a minimum value ... is filling and the sender should **send** a synchronism ... again, to the responsible sender to **transmit** urgently a ...

[jungla.dit.upm.es/~ecastro/ReliableMulticast/protocolDesc.html](http://jungla.dit.upm.es/~ecastro/ReliableMulticast/protocolDesc.html) - 11k - [Cached](#) - [Similar pages](#)

### [PDF]1

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... If you see errors like □V1\_SendTrap: Sendto failed, unable to **send** trap. ... SDL Initialization complete. Awaiting first **heartbeat** msg. ... **Transmit** Status available. ...

[www.bentleytelecom.co.uk/support/Startrio/instructions/idu.doc](http://www.bentleytelecom.co.uk/support/Startrio/instructions/idu.doc) - [Similar pages](#)

### Distributed Simulation- Concepts

... UDP is most often used to **transmit** entity updates ... If a host were to **send** the following series of ... solution to this dilemma is a **heartbeat message**, also commonly ...

[www.cecs.csulb.edu/~sohl/distributedsim/dissim/dissim-body.html](http://www.cecs.csulb.edu/~sohl/distributedsim/dissim/dissim-body.html) - 29k - [Cached](#) - [Similar pages](#)

### [PDF]The Message Bus: A Platform for Component-based Conferencing ...

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... Floor control: who may **transmit** at a ... the self-announcement messages that all entities **send** periodically ... The rate at which these periodic **heartbeat** messages are ...

[csperskins.org/publications/cbg2000.pdf](http://csperskins.org/publications/cbg2000.pdf) - [Similar pages](#)

### Broadcasting Messages

... to update user displays would **send** a registration ... Default Default **Heartbeat \* Transmit** SILO Receive ... Poll \* MOT (in MABs) (in MABs) **Heartbeat** Interval Interval ...

[edocs.bea.com/tuxedo/msgq/prog/ch3.htm](http://edocs.bea.com/tuxedo/msgq/prog/ch3.htm) - 56k - [Cached](#) - [Similar pages](#)

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... to the VCN AP, a person can **send** data from ... VCN Access **Point** Features 13 and data to the SuperStack ... AP is connected to the Ethernet switch **directly** through the ...

[support.3com.com/infodeli/tools/vcn/vcn\\_ap/ap\\_serv.pdf](http://support.3com.com/infodeli/tools/vcn/vcn_ap/ap_serv.pdf) - [Similar pages](#)

### [PDF]Message Passing Up to now the concurrent programming constructs ( ...

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... perform one more iteration of the **heartbeat** algorithm to **transmit** any new ... page 78

All **heartbeat** algorithms have the same basic structure; **send** messages to ...

[www.redbrick.dcu.ie/~foo/Concurrent/notes3.pdf](http://www.redbrick.dcu.ie/~foo/Concurrent/notes3.pdf) - [Similar pages](#)

### [PDF]Microsoft PowerPoint - SCNVElecture3

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... slowly changing entities to eliminate the **heartbeat** messages of ... all hosts on the network

To **send** a broadcast ... Which protocol should I use to **transmit** this piece ...

staff.cs.utu.fi/kurssit/scnve/spring\_2002/SCNVElecture3\_1.pdf - [Similar pages](#)

**Secure Multicast**

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... ourselves that all legitimate members are able to **transmit** and receive ... HB:X = **Heartbeat**

RK:X = Rekey. ... Receiver would **send** a Core Request, its CERTR and a random ...

www.cs.buffalo.edu/~qiao/cse620/present\_2000/secure\_multicast\_97\_color.ppt - [Similar pages](#)



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